

ภาคผนวก ค

ใบรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม
โครงการโรงงานผลิตสารโพลีเอสเตอร์ (ส่วนขยาย ครั้งที่ 2)

ภาคผนวก ค-1

ผลการตรวจวัดสารอินทรีย์ระเหยในบรรยากาศ



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 2374978

Date Received : Jul 04, 2023

Date Reported : Jul 17, 2023

Report Number : 2698984-1C15

Page 1 of 3

Sample Number 2374978-1
Sampled Date Jul 03, 2023
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0726292, 1407282)
Date Analysis Commenced Jul 05, 2023
Condition of Sample Drawn into one 6-L Canister, two sorbent tubes and one amber plastic bottle, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	03/07/23 - 04/07/23	ppm	-	0.1	<0.10	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009)

Note : - Prachum Mit Bamrung Community station has moderate traffic, Cloudy, Normal activit, Nearby temple and Community

Sampled By : Nantawat Sarin

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 2374978

Date Received : Jul 04, 2023

Date Reported : Jul 17, 2023

Report Number : 2698984-1C15

Page 2 of 3

Sample Number 2374978-2
Sampled Date Jul 03, 2023
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0724377, 1402458)
Date Analysis Commenced Jul 05, 2023
Condition of Sample Drawn into one 6-L Canister, two sorbent tubes and one amber plastic bottle, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	03/07/23 - 04/07/23	ppm	-	0.1	<0.10	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

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Note : - Pa Yoon Community station has moderate traffic, Cloudy, Normal activity, Nearby temple, school and Community

Sampled By : Nantawat Sarin

Remark :

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10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4505352907
Project Name : Environmental Quality Monitoring
Project Location : AIE_Rigid Polyol Plant

Lot ID: 2374978
Date Received : Jul 04, 2023
Date Reported : Jul 17, 2023
Report Number : 2698984-1C15

Page 3 of 3

Sample Number 2374978-3
Sampled Date Jul 03, 2023
Sample Description Air Quality
Location ชุมชนบ้านประมงมิตรบำรุง (GPS 47P 0730826, 1407366)
Date Analysis Commenced Jul 05, 2023
Condition of Sample Drawn into one 6-L Canister, two sorbent tubes and one amber plastic bottle, refrigerated
Barometric Pressure 757 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	03/07/23 - 04/07/23	ppm	-	0.1	<0.10	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :
NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009)
Note : - Map Cha Lood Community station has moderate traffic, Cloudy, Normal activity, Nearby temple, school and Community
Sampled By : Nantawat Sarin

Remark :
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Analysis / Test Report

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10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4505352907
Project Name : Environmental Quality Monitoring
Project Location : AIE_Rigid Polyol Plant

Lot ID: 2387916
Date Received : Aug 04, 2023
Date Reported : Aug 21, 2023
Report Number : 2729814-1C15

Page 1 of 3

Sample Number 2387916-1
Sampled Date Aug 03, 2023
Sample Description Air Quality
Location ชุมชนบ้านประมงมิตรบำรุง (GPS 47P 0726292, 1407282)
Date Analysis Commenced Aug 07, 2023
Condition of Sample Drawn into one 6-L Canister, one sorbent tube and one amber plastic bottle, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	03/08/23 - 04/08/23	ppm	-	0.1	<0.10	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :
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Note : Prachum Mit Bamrung Community station has moderate traffic Cloudy, Normal activity, Nearby temple and Community
Sampled By : Adisak Talesoon

Remark :
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Approved by

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 2387916

Date Received : Aug 04, 2023

Date Reported : Aug 21, 2023

Report Number : 2729814-1C15

Page 2 of 3

Sample Number 2387916-2
Sampled Date Aug 03, 2023
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0724377, 1402458)
Date Analysis Commenced Aug 07, 2023
Condition of Sample Drawn into one 6-L Canister, one sorbent tube and one amber plastic bottle, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	03/08/23 - 04/08/23	ppm	-	0.1	<0.10	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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Note : Pa Yoon Community station has moderate traffic, Cloudy, Normal activity, Nearby temple, school and Community

Sampled By : Adisak Talesoon

Remark :

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10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 2387916

Date Received : Aug 04, 2023

Date Reported : Aug 21, 2023

Report Number : 2729814-1C15

Page 3 of 3

Sample Number 2387916-3
Sampled Date Aug 03, 2023
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0730826, 1407366)
Date Analysis Commenced Aug 07, 2023
Condition of Sample Drawn into one 6-L Canister, one sorbent tube and one amber plastic bottle, refrigerated
Barometric Pressure 755 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	03/08/23 - 04/08/23	ppm	-	0.1	<0.10	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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Note : Map Cha Lood Community station has moderate traffic, Cloudy, Normal activity, Nearby temple, school and Community

Sampled By : Adisak Talesoon

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4505352907
Project Name : Environmental Quality Monitoring
Project Location : AIE_Rigid Polyol Plant

Lot ID: 23101326
Date Received : Sep 05, 2023
Date Reported : Sep 12, 2023
Report Number : 2759766-1C15

Page 1 of 3

Sample Number 23101326-1
Sampled Date Sep 04, 2023
Sample Description Air Quality
Location ฐานตรวจวัดชุมชน (GPS 47P 0726292, 1407282)
Date Analysis Commenced Sep 06, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 753 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	04/09/23 - 05/09/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)
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Note : Prachum Mit Bamrung Community station has moderate traffic, There is construction in the temple, Clear sky, Nearby School, temple and Community

Sampled By : Suphachai Wongsurichai

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Tanyatorn Mongkonjirawut
Supervisor

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4505352907
Project Name : Environmental Quality Monitoring
Project Location : AIE_Rigid Polyol Plant

Lot ID: 23101326
Date Received : Sep 05, 2023
Date Reported : Sep 12, 2023
Report Number : 2759766-1C15

Page 2 of 3

Sample Number 23101326-2
Sampled Date Sep 04, 2023
Sample Description Air Quality
Location ฐานตรวจวัด (GPS 47P 0724377, 1402458)
Date Analysis Commenced Sep 06, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure 753 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	04/09/23 - 05/09/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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Note : Pa Yoon Community station has moderate traffic, Clear sky, Normal activity, Nearby temple, school and Community

Sampled By : Suphachai Wongsurichai

Remark :

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 23101326

Date Received : Sep 05, 2023

Date Reported : Sep 12, 2023

Report Number : 2759766-1C15

Page 3 of 3

Sample Number	23101326-3
Sampled Date	Sep 04, 2023
Sample Description	Air Quality
Location	ชุมชนบ้านขุด (GPS 47P 0730826, 1407366)
Date Analysis Commenced	Sep 06, 2023
Condition of Sample	Drawn into one 6-L Canister, one amber plastic bottle and two sorbent tubes, refrigerated
Barometric Pressure	753 mmHg
Atmospheric Temperature	31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	04/09/23 - 05/09/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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Note : Map Cha Lood Community station has moderate traffic, There's a funeral in the temple, Normal activity, Nearby temple, school and Community

Sampled By : Suphachai Wongsurichai

Remark :

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 23111860

Date Received : Oct 03, 2023

Date Reported : Oct 12, 2023

Report Number : 2787453-1C15

Page 1 of 3

Sample Number	23111860-1
Sampled Date	Oct 02, 2023
Sample Description	Air Quality
Location	ชุมชนบ้านประทุมมิตรบำรุง (GPS 47P 0726292, 1407282)
Date Analysis Commenced	Oct 04, 2023
Condition of Sample	Drawn into one 6-L Canister, two amber plastic bottles and two sorbent tubes, refrigerated
Barometric Pressure	756 mmHg
Atmospheric Temperature	28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	02/10/23 - 03/10/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

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Note : Prachum Mit Bamrung Community station has moderate traffic, light to moderate rain, Nearby School, temple and Community

Sampled By : Sawai Tonpho

Remark :

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4505352907
Project Name : Environmental Quality Monitoring
Project Location : AIE_Rigid Polyol Plant

Lot ID: 23111860
Date Received : Oct 03, 2023
Date Reported : Oct 12, 2023
Report Number : 2787453-1C15

Page 2 of 3

Sample Number 23111860-2
Sampled Date Oct 02, 2023
Sample Description Air Quality
Location ชลประทาน (GPS 47P 0724377, 1402458)
Date Analysis Commenced Oct 04, 2023
Condition of Sample Drawn into one 6-L Canister, two amber plastic bottles and two sorbent tubes, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	02/10/23 - 03/10/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

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Sampled By : Sawai Tonpho

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Supervisor

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Thailand 21130
P/O : 4505352907
Project Name : Environmental Quality Monitoring
Project Location : AIE_Rigid Polyol Plant

Lot ID: 23111860
Date Received : Oct 03, 2023
Date Reported : Oct 12, 2023
Report Number : 2787453-1C15

Page 3 of 3

Sample Number 23111860-3
Sampled Date Oct 02, 2023
Sample Description Air Quality
Location ชลประทาน (GPS 47P 0730826, 1407366)
Date Analysis Commenced Oct 04, 2023
Condition of Sample Drawn into one 6-L Canister, two amber plastic bottles and two sorbent tubes, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	02/10/23 - 03/10/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

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Sampled By : Sawai Tonpho

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Tanyatom Mongkonjirawut
Supervisor

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 23125255

Date Received : Nov 02, 2023

Date Reported : Nov 10, 2023

Report Number : 2817963-1C15

Page 1 of 3

Sample Number 23125255-1
Sampled Date Nov 01, 2023
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0726292, 1407282)
Date Analysis Commenced Nov 03, 2023
Condition of Sample Drawn into one 6-L Canister and one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure 758 mmHg
Atmospheric Temperature 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	01/11/23 - 02/11/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009)

Note : Prachum Mit Bamrung Community station has moderate traffic, Clear sky, Normal activity, Nearby temple and Community

Sampled By : Chatchai Sukpia

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Tanyatorn Mongkonjirawut
Supervisor

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4505352907

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 23125255

Date Received : Nov 02, 2023

Date Reported : Nov 10, 2023

Report Number : 2817963-1C15

Page 2 of 3

Sample Number 23125255-2
Sampled Date Nov 01, 2023
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0724377, 1402458)
Date Analysis Commenced Nov 03, 2023
Condition of Sample Drawn into one 6-L Canister and one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure 758 mmHg
Atmospheric Temperature 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	01/11/23 - 02/11/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009)

Note : Pa Yoon Community station has moderate traffic, Clear sky, Normal activity, Nearby temple and Community

Sampled By : Chatchai Sukpia

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Tanyatorn Mongkonjirawut
Supervisor

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4505352907
Project Name : Environmental Quality Monitoring
Project Location : AIE_Rigid Polyol Plant

Lot ID: 23125255
Date Received : Nov 02, 2023
Date Reported : Nov 10, 2023
Report Number : 2817963-1C15

Page 3 of 3

Sample Number 23125255-3
Sampled Date Nov 01, 2023
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0730826, 1407366)
Date Analysis Commenced Nov 03, 2023
Condition of Sample Drawn into one 6-L Canister and one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure 758 mmHg
Atmospheric Temperature 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	01/11/23 - 02/11/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009)

Note : Map Cha Lood Community station has moderate traffic, Clear sky, Normal activity, Nearby temple, school and Community

Sampled By : Chatchai Sukpia

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Tanyatorn Mongkonjirawut
Supervisor

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4505352907
Project Name : Environmental Quality Monitoring
Project Location : AIE_Rigid Polyol Plant

Lot ID: 23136615
Date Received : Dec 07, 2023
Date Reported : Dec 19, 2023
Report Number : 2843528-1C15

Page 1 of 3

Sample Number 23136615-1
Sampled Date Dec 06, 2023
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0726292, 1407282)
Date Analysis Commenced Dec 08, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure 758 mmHg
Atmospheric Temperature 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	06/12/23 - 07/12/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)
PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009)

Note : Prachum Mit Bamrung Community station has moderate traffic, Clear sky, Normal activity, Nearby temple, school and Community

Sampled By : Adisak Talesoon

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Approved by

Orawan Rakyong
Scientist (3)

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Thailand 21130
P/O : 4505352907
Project Name : Environmental Quality Monitoring
Project Location : AIE_Rigid Polyol Plant

Lot ID: 23136615
Date Received : Dec 07, 2023
Date Reported : Dec 19, 2023
Report Number : 2843528-1C15

Page 2 of 3

Sample Number 23136615-2
Sampled Date Dec 06, 2023
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0724377, 1402458)
Date Analysis Commenced Dec 08, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure 758 mmHg
Atmospheric Temperature 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	06/12/23 - 07/12/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009)

Note : Pa Yoon Community station has moderate traffic, Clear sky, Normal activity, Nearby temple, school and Community

Sampled By : Adisak Talesoon

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

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10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4505352907
Project Name : Environmental Quality Monitoring
Project Location : AIE_Rigid Polyol Plant

Lot ID: 23136615
Date Received : Dec 07, 2023
Date Reported : Dec 19, 2023
Report Number : 2843528-1C15

Page 3 of 3

Sample Number 23136615-3
Sampled Date Dec 06, 2023
Sample Description Air Quality
Location กรุงเทพมหานคร (GPS 47P 0730826, 1407366)
Date Analysis Commenced Dec 08, 2023
Condition of Sample Drawn into one 6-L Canister, one amber plastic bottle and one sorbent tube, refrigerated
Barometric Pressure 758 mmHg
Atmospheric Temperature 28.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	06/12/23 - 07/12/23	ug/m3	1.2	14	Not Detected	No Standard	Based on NIOSH, 1612	-	Bangkok

Guideline :

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009)

Note : Map Cha Lood Community station has moderate traffic, There's a funeral in the temple, Normal activity, Nearby temple, school and Community

Sampled By : Adisak Talesoon

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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ภาคผนวก ค-2

ผลการตรวจวัดคุณภาพอากาศในสถานประกอบการ



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159018

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2388106

Date Received : Aug 29, 2023

Date Reported : Sep 05, 2023

Report Number : 2730324-1

Page 1 of 2

Sample Number 2388106-1

Sampled Date Aug 28, 2023

Sample Description Air Quality

Location ถนนพหลโยธิน

Date Analysis Commenced Aug 30, 2023

Barometric Pressure 754 mmHg

Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:30 AM - 11:30 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159018

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2388106

Date Received : Aug 29, 2023

Date Reported : Sep 05, 2023

Report Number : 2730324-1

Page 2 of 2

Sample Number 2388106-2

Sampled Date Aug 28, 2023

Sample Description Air Quality

Location ถนนพหลโยธิน

Personal Sampling อุณหภูมิห้อง

Date Analysis Commenced Aug 30, 2023

Barometric Pressure 754 mmHg

Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:30 AM - 11:30 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Apichart Wilars

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Orawan R.

Orawan Rakyong
Scientist (3)

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 2388107

Date Received : Aug 29, 2023

Date Reported : Sep 05, 2023

Report Number : 2730329-1

Page 1 of 2

Sample Number 2388107-1
Sampled Date Aug 28, 2023
Sample Description Air Quality
Location หน่วยปฏิบัติการของสายการผลิตที่ 2
Date Analysis Commenced Aug 30, 2023
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 754 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:30 AM - 11:30 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Sathaporn Thakarn

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Orawan R.

Orawan Rak Yong
Scientist (3)

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 2388107

Date Received : Aug 29, 2023

Date Reported : Sep 05, 2023

Report Number : 2730329-1

Page 2 of 2

Sample Number 2388107-2
Sampled Date Aug 28, 2023
Sample Description Air Quality
Location สุ่มตรวจพนักงานที่ปฏิบัติงานในกระบวนการผลิต
Personal Sampling คุณกฤติเดช ศรีศรี
Date Analysis Commenced Aug 30, 2023
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 754 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:30 AM - 11:30 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Sathaporn Thakarn

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Orawan R.

Orawan Rak Yong
Scientist (3)

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159018

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 23125280

Date Received : Oct 31, 2023

Date Reported : Nov 08, 2023

Report Number : 2818015-1

Page 1 of 2

Sample Number	23125280-1
Sampled Date	Oct 31, 2023
Sample Description	Air Quality
Location	หน่วยทำปฏิกิริยา
Date Analysis Commenced	Nov 01, 2023
Condition of Sample	Drawn into one sorbent tube, refrigerated
Barometric Pressure	756 mmHg
Atmospheric Temperature	30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:00 AM - 11:00 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Natthapon Jengwareewong

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159018

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 23125280

Date Received : Oct 31, 2023

Date Reported : Nov 08, 2023

Report Number : 2818015-1

Page 2 of 2

Sample Number	23125280-2
Sampled Date	Oct 31, 2023
Sample Description	Air Quality
Location	หน่วยทำปฏิกิริยา
Personal Sampling	คุณกิตติพงษ์ เพชรสังหนู
Date Analysis Commenced	Nov 01, 2023
Condition of Sample	Drawn into one sorbent tube, refrigerated
Barometric Pressure	756 mmHg
Atmospheric Temperature	30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:00 AM - 11:00 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

Guideline :

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

Sampled By : Natthapon Jengwareewong

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4514159080
Project Name : Environmental Quality Monitoring
Project Location : AIE_Rigid Polyol Plant

Lot ID: 23125283
Date Received : Oct 31, 2023
Date Reported : Nov 08, 2023
Report Number : 2818052-1

Page 1 of 2

Sample Number 23125283-1
Sampled Date Oct 31, 2023
Sample Description Air Quality
Location หน่วยปฏิบัติการของสายการผลิตที่ 2
Date Analysis Commenced Nov 01, 2023
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:00 AM - 11:00 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
Sampled By : Natthapon Jiengwareewong

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130
P/O : 4514159080
Project Name : Environmental Quality Monitoring
Project Location : AIE_Rigid Polyol Plant

Lot ID: 23125283
Date Received : Oct 31, 2023
Date Reported : Nov 08, 2023
Report Number : 2818052-1

Page 2 of 2

Sample Number 23125283-2
Sampled Date Oct 31, 2023
Sample Description Air Quality
Location สุ่มตรวจพนักงานที่ปฏิบัติงานในกระบวนการผลิต
Personal Sampling คุณสุพจน์ แสงแก้ว
Date Analysis Commenced Nov 01, 2023
Condition of Sample Drawn into one sorbent tube, refrigerated
Barometric Pressure 756 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Propylene Oxide	09:00 AM - 11:00 AM	ppm	-	0.10	<0.10	100	NIOSH (1994), 1612	MOL	Bangkok

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
Sampled By : Natthapon Jiengwareewong

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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ภาคผนวก ค-3

ผลการตรวจวิเคราะห์คุณภาพน้ำเสียจากกระบวนการผลิต



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4701275070

Project Name : Water Testing

Project Location : AIE_DMC Polyol Plant



TESTING
No.0042

Lot ID: 2374967

Date Received : Jul 12, 2023

Date Reported : Jul 19, 2023

Report Number : 2698950-1

Page 1 of 1

Sample Number	2374967-1					
Sampled Date	Jul 12, 2023 11:20 AM					
Sample Description	Wastewater					
Location	WW from Process					
Date Analysis Commenced	Jul 12, 2023					
Condition of Sample	Contained in two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	1533	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	9453	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	63	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	5.6	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	<5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Sampling By : Pathompong Kornasawat ทะเบียนเลขที่ ร-323-จ-9468

Remark :

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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banthit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ร-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ร-323-จ-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4701275070

Project Name : Water Testing

Project Location : AIE_DMC Polyol Plant



TESTING
No.0042

Lot ID: 2387808

Date Received : Aug 03, 2023

Date Reported : Aug 10, 2023

Report Number : 2729295-1

Page 1 of 1

Page 1 of 1

Sample Number	2387808-1					
Sampled Date	Aug 03, 2023 11:20 AM					
Sample Description	Wastewater					
Location	WW from Process					
Date Analysis Commenced	Aug 03, 2023					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	3601	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	18636	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	92	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	4.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	<5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Sampling By : Wanlop Hunchainao ทะเบียนเลขที่ ร-323-จ-9457

Remark :

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Technical Management

N. Banthit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ร-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ร-323-จ-9442

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand

P/O : 4701275070

Project Name : Water Testing

Project Location : AIE_DMC Polyol Plant

Lot ID: 23101152

Date Received : Sep 06, 2023

Date Reported : Sep 13, 2023

Report Number : 2759408-1

Page 1 of 1

Sample Number	23101152-1
Sampled Date	Sep 06, 2023 10:50 AM
Sample Description	Wastewater
Location	WW from Process
Date Analysis Commenced	Sep 06, 2023
Condition of Sample	Contained in two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	1938	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	11520	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	54	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	6.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	<5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Sampling By : Sansoen Khuiyoksu ทวีเกียรติ 3-323-9-0005

Remark :

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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ 3-323-9-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 3-323-9-9442

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Analysis / Test Report

TESTING
No.0042

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand

P/O : 4701275070

Project Name : Water Testing

Project Location : AIE_DMC Polyol Plant

Lot ID: 23111824

Date Received : Oct 04, 2023

Date Reported : Oct 11, 2023

Report Number : 2787432-1

Page 1 of 1

Sample Number	23111824-1
Sampled Date	Oct 04, 2023 11:15 AM
Sample Description	Wastewater
Location	WW from Process
Date Analysis Commenced	Oct 04, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	1516	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	13219	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	78	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	3.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	68	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Sampling By : Sansoen Khuiyoksu ทวีเกียรติ 3-323-9-0005

Remark :

- LOD : Limit of Detection
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Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ 3-323-9-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 3-323-9-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130
P/O : 4701275070
Project Name : Water Testing
Project Location : AIE_DMC Polyol Plant



TESTING
No.0042

Lot ID: 23125170
Date Received : Nov 01, 2023
Date Reported : Nov 08, 2023
Report Number : 2817760-1

Page 1 of 1

Sample Number	23125170-1					
Sampled Date	Nov 01, 2023 10:41 AM					
Sample Description	Wastewater					
Location	WW from Process					
Date Analysis Commenced	Nov 01, 2023					
Condition of Sample	Contained in two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	896	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	9576	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	98	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	5.6	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	<5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Sampling By : Chainusorn Lertnathakunchai ทะเบียนเลขที่ ๖-323-๖-9461

Remark :

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Technical Management

N. Banngkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ๖-323-๖-9445

Approved by

D. Chongchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-9442

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.
10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130
P/O : 4701275070
Project Name : Water Testing
Project Location : AIE_DMC Polyol Plant



TESTING
No.0042

Lot ID: 23136602
Date Received : Dec 06, 2023
Date Reported : Dec 13, 2023
Report Number : 2843492-1

Page 1 of 1

Sample Number	23136602-1					
Sampled Date	Dec 06, 2023 10:45 AM					
Sample Description	Wastewater					
Location	WW from Process					
Date Analysis Commenced	Dec 06, 2023					
Condition of Sample	Contained in two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 Degree C)	mg/L	-	2.0	2371	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	13965	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	131	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *	-	-	-	7.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	6	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong

Sampling By : Chainusorn Lertnathakunchai ทะเบียนเลขที่ ๖-323-๖-9461

Remark :

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Technical Management

N. Banngkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ๖-323-๖-9445

Approved by

D. Chongchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ ๖-323-๖-9442

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ภาคผนวก ค-4

ผลการตรวจวัดระดับเสียงโดยทั่วไป



Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2391188

Date Received : Aug 16, 2023

Date Reported : Aug 23, 2023

Report Number: 2750842-1C18

Page 1 of 1

Sample Number 2391188-1
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Aug 09 - Aug 10, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	58.9	75.8	57.0
10:00 AM - 11:00 AM	59.9	83.6	57.2
11:00 AM - 12:00 PM	59.3	76.0	56.9
12:00 PM - 01:00 PM	59.4	88.2	56.3
01:00 PM - 02:00 PM	58.4	72.8	56.7
02:00 PM - 03:00 PM	58.7	70.7	57.0
03:00 PM - 04:00 PM	59.3	84.1	57.4
04:00 PM - 05:00 PM	60.5	93.0	57.2
05:00 PM - 06:00 PM	60.1	74.4	57.7
06:00 PM - 07:00 PM	60.6	78.3	58.5
07:00 PM - 08:00 PM	60.0	76.3	58.6
08:00 PM - 09:00 PM	59.5	70.8	58.7
09:00 PM - 10:00 PM	59.5	78.6	58.5
10:00 PM - 11:00 PM	59.1	66.8	58.6
11:00 PM - 12:00 AM	58.5	71.9	57.7
12:00 AM - 01:00 AM	58.5	63.5	57.7
01:00 AM - 02:00 AM	58.3	62.9	57.7
02:00 AM - 03:00 AM	58.6	80.8	57.7
03:00 AM - 04:00 AM	59.0	85.3	58.1
04:00 AM - 05:00 AM	58.1	68.5	57.6
05:00 AM - 06:00 AM	59.1	69.3	57.9
06:00 AM - 07:00 AM	60.3	77.8	57.9
07:00 AM - 08:00 AM	61.0	78.1	56.9
08:00 AM - 09:00 AM	58.8	77.0	56.7

Leq Average 24 hrs. (dB(A)) 59.4
Lmax (dB(A)) 93.0
L90 (dB(A)) 57.7
Ldn (dB(A)) 65.4
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2391188

Date Received : Aug 16, 2023

Date Reported : Aug 23, 2023

Report Number: 2750843-1C18

Page 1 of 1

Sample Number 2391188-2
Parameter Noise (Leq 24 hrs.)
Location บริเวณริมรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Aug 10 - Aug 11, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	58.5	81.4	56.4
10:00 AM - 11:00 AM	58.4	72.4	56.7
11:00 AM - 12:00 PM	59.4	85.6	56.8
12:00 PM - 01:00 PM	58.8	81.7	56.6
01:00 PM - 02:00 PM	58.3	71.1	56.7
02:00 PM - 03:00 PM	58.4	74.2	56.6
03:00 PM - 04:00 PM	60.9	95.4	57.0
04:00 PM - 05:00 PM	59.9	72.1	57.8
05:00 PM - 06:00 PM	60.4	77.7	58.2
06:00 PM - 07:00 PM	60.5	77.2	58.5
07:00 PM - 08:00 PM	60.3	87.0	58.4
08:00 PM - 09:00 PM	59.2	70.1	58.3
09:00 PM - 10:00 PM	57.8	68.3	56.9
10:00 PM - 11:00 PM	57.6	67.9	56.8
11:00 PM - 12:00 AM	57.5	76.6	56.7
12:00 AM - 01:00 AM	57.4	60.6	56.7
01:00 AM - 02:00 AM	57.4	63.7	56.8
02:00 AM - 03:00 AM	57.9	59.8	57.3
03:00 AM - 04:00 AM	58.7	85.0	57.6
04:00 AM - 05:00 AM	58.2	74.5	57.2
05:00 AM - 06:00 AM	58.8	67.3	57.7
06:00 AM - 07:00 AM	60.0	74.0	57.8
07:00 AM - 08:00 AM	62.4	92.9	57.9
08:00 AM - 09:00 AM	59.6	78.3	57.1

Leq Average 24 hrs. (dB(A)) 59.2
Lmax (dB(A)) 95.4
L90 (dB(A)) 57.0
Ldn (dB(A)) 64.9
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Life Sciences

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Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2391188

Date Received : Aug 16, 2023

Date Reported : Aug 23, 2023

Report Number: 2750844-1C18

Page 1 of 1

Sample Number 2391188-3
Parameter Noise (Leq 24 hrs.)
Location บริเวณเริ่มรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Aug 11 - Aug 12, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	58.4	71.9	56.9
10:00 AM - 11:00 AM	58.6	74.8	57.0
11:00 AM - 12:00 PM	59.4	75.2	57.0
12:00 PM - 01:00 PM	58.8	74.8	56.6
01:00 PM - 02:00 PM	58.8	70.7	56.9
02:00 PM - 03:00 PM	58.0	72.8	56.8
03:00 PM - 04:00 PM	58.6	72.4	57.1
04:00 PM - 05:00 PM	59.7	78.1	57.5
05:00 PM - 06:00 PM	60.5	81.3	58.0
06:00 PM - 07:00 PM	61.0	76.2	58.3
07:00 PM - 08:00 PM	60.1	72.4	59.0
08:00 PM - 09:00 PM	59.7	71.5	58.9
09:00 PM - 10:00 PM	60.1	70.5	59.3
10:00 PM - 11:00 PM	59.2	75.2	58.1
11:00 PM - 12:00 AM	58.7	69.3	57.8
12:00 AM - 01:00 AM	58.0	71.3	57.3
01:00 AM - 02:00 AM	58.0	69.8	57.2
02:00 AM - 03:00 AM	58.2	83.8	57.3
03:00 AM - 04:00 AM	60.7	85.6	57.0
04:00 AM - 05:00 AM	58.8	71.8	56.8
05:00 AM - 06:00 AM	58.5	70.8	56.7
06:00 AM - 07:00 AM	58.6	76.5	57.1
07:00 AM - 08:00 AM	59.0	73.2	57.2
08:00 AM - 09:00 AM	59.7	74.0	57.4

Leq Average 24 hrs. (dB(A))

59.2

Lmax (dB(A))

85.6

L90 (dB(A))

57.2

Ldn (dB(A))

65.3

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2391188

Date Received : Aug 16, 2023

Date Reported : Aug 23, 2023

Report Number: 2750845-1C18

Page 1 of 1

Sample Number 2391188-4
Parameter Noise (Leq 24 hrs.)
Location บริเวณเริ่มรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Aug 12 - Aug 13, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	59.6	73.8	57.3
10:00 AM - 11:00 AM	60.4	74.0	58.1
11:00 AM - 12:00 PM	59.5	72.1	58.3
12:00 PM - 01:00 PM	59.0	76.3	57.7
01:00 PM - 02:00 PM	58.5	73.2	57.5
02:00 PM - 03:00 PM	58.4	72.4	57.5
03:00 PM - 04:00 PM	58.1	68.7	57.4
04:00 PM - 05:00 PM	57.8	60.4	57.2
05:00 PM - 06:00 PM	58.5	62.3	57.5
06:00 PM - 07:00 PM	59.5	79.3	58.3
07:00 PM - 08:00 PM	59.2	66.7	58.6
08:00 PM - 09:00 PM	59.5	65.4	58.8
09:00 PM - 10:00 PM	60.4	69.9	58.7
10:00 PM - 11:00 PM	60.9	76.7	58.6
11:00 PM - 12:00 AM	61.6	78.1	58.3
12:00 AM - 01:00 AM	59.8	82.7	57.5
01:00 AM - 02:00 AM	59.3	72.3	57.3
02:00 AM - 03:00 AM	59.0	71.3	57.2
03:00 AM - 04:00 AM	59.1	77.0	57.6
04:00 AM - 05:00 AM	59.5	73.7	57.7
05:00 AM - 06:00 AM	60.2	74.5	57.9
06:00 AM - 07:00 AM	60.1	74.3	57.8
07:00 AM - 08:00 AM	60.9	74.5	58.6
08:00 AM - 09:00 AM	60.0	72.6	58.8

Leq Average 24 hrs. (dB(A))

59.6

Lmax (dB(A))

82.7

L90 (dB(A))

57.7

Ldn (dB(A))

66.3

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2391188

Date Received : Aug 16, 2023

Date Reported : Aug 23, 2023

Report Number: 2750846-1C18

Page 1 of 1

Sample Number 2391188-5
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Aug 13 - Aug 14, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	59.5	76.8	58.2
10:00 AM - 11:00 AM	59.0	73.7	58.0
11:00 AM - 12:00 PM	58.9	72.9	58.0
12:00 PM - 01:00 PM	58.6	69.2	57.9
01:00 PM - 02:00 PM	58.3	60.9	57.7
02:00 PM - 03:00 PM	59.0	62.8	58.0
03:00 PM - 04:00 PM	60.0	79.8	58.8
04:00 PM - 05:00 PM	59.7	67.2	59.1
05:00 PM - 06:00 PM	60.0	65.9	59.3
06:00 PM - 07:00 PM	60.9	70.4	59.2
07:00 PM - 08:00 PM	61.4	77.2	59.1
08:00 PM - 09:00 PM	62.1	78.6	58.8
09:00 PM - 10:00 PM	60.3	83.2	58.0
10:00 PM - 11:00 PM	59.4	76.3	57.5
11:00 PM - 12:00 AM	60.4	84.1	57.7
12:00 AM - 01:00 AM	59.8	76.5	57.4
01:00 AM - 02:00 AM	59.9	88.7	56.8
02:00 AM - 03:00 AM	58.9	73.3	57.2
03:00 AM - 04:00 AM	59.2	71.2	57.5
04:00 AM - 05:00 AM	59.8	84.6	57.9
05:00 AM - 06:00 AM	61.0	93.5	57.7
06:00 AM - 07:00 AM	60.6	74.9	58.2
07:00 AM - 08:00 AM	61.1	78.8	59.0
08:00 AM - 09:00 AM	60.5	76.8	59.1

Leq Average 24 hrs. (dB(A))

Lmax (dB(A))

L90 (dB(A))

Ldn (dB(A))

Standard (dB(A))

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2391188

Date Received : Aug 16, 2023

Date Reported : Aug 23, 2023

Report Number: 2750847-1C18

Page 1 of 1

Sample Number 2391188-6
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วของโครงการทางด้านทิศตะวันตกของพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Aug 14 - Aug 15, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	60.0	71.3	59.2
10:00 AM - 11:00 AM	60.0	79.1	59.0
11:00 AM - 12:00 PM	59.6	67.3	59.1
12:00 PM - 01:00 PM	59.0	72.4	58.2
01:00 PM - 02:00 PM	59.0	64.0	58.2
02:00 PM - 03:00 PM	58.8	63.4	58.2
03:00 PM - 04:00 PM	59.1	81.3	58.2
04:00 PM - 05:00 PM	59.5	85.8	58.6
05:00 PM - 06:00 PM	58.6	69.0	58.1
06:00 PM - 07:00 PM	59.6	69.8	58.4
07:00 PM - 08:00 PM	60.8	78.3	58.4
08:00 PM - 09:00 PM	61.5	78.6	57.4
09:00 PM - 10:00 PM	59.3	77.5	57.2
10:00 PM - 11:00 PM	59.0	81.9	56.9
11:00 PM - 12:00 AM	58.9	72.9	57.2
12:00 AM - 01:00 AM	59.9	86.1	57.3
01:00 AM - 02:00 AM	59.3	82.2	57.1
02:00 AM - 03:00 AM	58.8	71.6	57.2
03:00 AM - 04:00 AM	58.9	74.7	57.1
04:00 AM - 05:00 AM	61.4	95.9	57.5
05:00 AM - 06:00 AM	60.4	72.6	58.3
06:00 AM - 07:00 AM	60.9	78.2	58.7
07:00 AM - 08:00 AM	61.0	77.7	59.0
08:00 AM - 09:00 AM	60.8	87.5	58.9

Leq Average 24 hrs. (dB(A))

Lmax (dB(A))

L90 (dB(A))

Ldn (dB(A))

Standard (dB(A))

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2391188

Date Received : Aug 16, 2023

Date Reported : Aug 23, 2023

Report Number: 2750848-1C18

Page 1 of 1

Sample Number 2391188-7
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วของโครงการทางด้านทิศตะวันออกพื้นที่ HPPO (GPS 47P 0726777, 1405417)
Measurement Date Aug 15 - Aug 16, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 597167

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	59.7	70.6	58.8
10:00 AM - 11:00 AM	58.3	68.8	57.4
11:00 AM - 12:00 PM	58.1	68.4	57.3
12:00 PM - 01:00 PM	58.0	77.1	57.2
01:00 PM - 02:00 PM	57.9	61.1	57.2
02:00 PM - 03:00 PM	57.9	64.2	57.3
03:00 PM - 04:00 PM	58.4	60.3	57.8
04:00 PM - 05:00 PM	59.2	85.5	58.1
05:00 PM - 06:00 PM	58.7	75.0	57.7
06:00 PM - 07:00 PM	59.3	67.8	58.2
07:00 PM - 08:00 PM	60.5	74.5	58.3
08:00 PM - 09:00 PM	62.9	93.4	58.4
09:00 PM - 10:00 PM	60.1	78.8	57.6
10:00 PM - 11:00 PM	58.9	72.4	57.4
11:00 PM - 12:00 AM	59.1	75.3	57.5
12:00 AM - 01:00 AM	59.9	75.7	57.5
01:00 AM - 02:00 AM	59.3	75.3	57.1
02:00 AM - 03:00 AM	59.3	71.2	57.4
03:00 AM - 04:00 AM	58.5	73.3	57.3
04:00 AM - 05:00 AM	59.1	72.9	57.6
05:00 AM - 06:00 AM	60.2	78.6	58.0
06:00 AM - 07:00 AM	61.0	81.8	58.5
07:00 AM - 08:00 AM	61.5	76.7	58.8
08:00 AM - 09:00 AM	60.6	72.9	59.5

Leq Average 24 hrs. (dB(A))

59.6

Lmax (dB(A))

93.4

L90 (dB(A))

57.6

Ldn (dB(A))

66.0

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2391190

Date Received : Aug 16, 2023

Date Reported : Aug 23, 2023

Report Number: 2750849-1C18

Page 1 of 1

Sample Number 2391190-1
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วของโครงการทางด้านทิศตะวันออกพื้นที่ HPPO (ข้างปั๊มน้ำมัน 45) (GPS 47P 0727136, 1404550)
Measurement Date Aug 09 - Aug 10, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 623391

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	50.1	70.4	45.1
10:00 AM - 11:00 AM	50.3	71.9	45.0
11:00 AM - 12:00 PM	50.0	70.9	45.0
12:00 PM - 01:00 PM	48.3	67.0	44.0
01:00 PM - 02:00 PM	49.3	63.2	43.8
02:00 PM - 03:00 PM	49.7	66.5	44.3
03:00 PM - 04:00 PM	54.3	75.7	44.8
04:00 PM - 05:00 PM	51.4	69.4	46.4
05:00 PM - 06:00 PM	61.3	83.1	46.5
06:00 PM - 07:00 PM	57.0	77.9	45.3
07:00 PM - 08:00 PM	46.4	64.3	44.1
08:00 PM - 09:00 PM	47.8	79.4	44.0
09:00 PM - 10:00 PM	50.5	72.0	44.3
10:00 PM - 11:00 PM	46.9	68.3	45.1
11:00 PM - 12:00 AM	46.0	52.0	45.2
12:00 AM - 01:00 AM	49.0	66.4	46.7
01:00 AM - 02:00 AM	47.5	52.4	47.0
02:00 AM - 03:00 AM	49.3	67.9	47.0
03:00 AM - 04:00 AM	48.2	62.7	47.6
04:00 AM - 05:00 AM	48.9	67.4	47.1
05:00 AM - 06:00 AM	55.4	77.5	48.0
06:00 AM - 07:00 AM	56.5	82.3	49.1
07:00 AM - 08:00 AM	54.1	75.3	45.9
08:00 AM - 09:00 AM	49.1	71.5	44.5

Leq Average 24 hrs. (dB(A))

52.8

Lmax (dB(A))

83.1

L90 (dB(A))

45.1

Ldn (dB(A))

58.2

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Life Sciences

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8525-209/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2391190

Date Received : Aug 16, 2023

Date Reported : Aug 23, 2023

Report Number: 2750850-1C18

Page 1 of 1

Sample Number 2391190-2
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊ม รปภ บล็อก 45) (GPS 47P 0727136, 1404550)
Measurement Date Aug 10 - Aug 11, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 623391

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	48.6	66.1	44.3
10:00 AM - 11:00 AM	51.1	73.9	44.9
11:00 AM - 12:00 PM	50.0	70.3	45.0
12:00 PM - 01:00 PM	49.2	65.4	45.5
01:00 PM - 02:00 PM	49.3	69.0	45.7
02:00 PM - 03:00 PM	54.2	80.4	43.6
03:00 PM - 04:00 PM	52.2	70.7	45.0
04:00 PM - 05:00 PM	53.8	75.4	46.2
05:00 PM - 06:00 PM	64.1	86.0	46.1
06:00 PM - 07:00 PM	52.3	78.9	43.9
07:00 PM - 08:00 PM	46.3	66.0	43.2
08:00 PM - 09:00 PM	45.1	59.0	43.9
09:00 PM - 10:00 PM	48.9	68.7	44.6
10:00 PM - 11:00 PM	45.9	65.1	44.6
11:00 PM - 12:00 AM	45.2	52.0	44.3
12:00 AM - 01:00 AM	49.3	71.2	44.4
01:00 AM - 02:00 AM	46.2	64.0	44.8
02:00 AM - 03:00 AM	47.6	52.7	46.6
03:00 AM - 04:00 AM	48.0	66.6	46.4
04:00 AM - 05:00 AM	48.6	72.2	46.6
05:00 AM - 06:00 AM	53.4	74.5	48.1
06:00 AM - 07:00 AM	53.7	75.3	48.5
07:00 AM - 08:00 AM	52.8	73.0	45.2
08:00 AM - 09:00 AM	57.3	89.8	44.1

Leq Average 24 hrs. (dB(A)) 53.7

Lmax (dB(A)) 89.8

L90 (dB(A)) 44.9

Ldn (dB(A)) 57.4

Standard (dB(A)) 70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Life Sciences

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Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand 21130

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2391190

Date Received : Aug 16, 2023

Date Reported : Aug 23, 2023

Report Number: 2750851-1C18

Page 1 of 1

Sample Number 2391190-3
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊ม รปภ บล็อก 45) (GPS 47P 0727136, 1404550)
Measurement Date Aug 11 - Aug 12, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 623391

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	49.1	72.1	43.7
10:00 AM - 11:00 AM	49.6	69.7	44.0
11:00 AM - 12:00 PM	54.1	77.6	45.1
12:00 PM - 01:00 PM	49.7	78.6	45.1
01:00 PM - 02:00 PM	47.6	65.9	44.1
02:00 PM - 03:00 PM	49.7	65.2	45.6
03:00 PM - 04:00 PM	54.4	75.4	46.4
04:00 PM - 05:00 PM	52.9	81.3	45.6
05:00 PM - 06:00 PM	48.7	68.6	44.2
06:00 PM - 07:00 PM	50.5	72.6	45.0
07:00 PM - 08:00 PM	54.7	79.7	44.6
08:00 PM - 09:00 PM	51.0	72.5	45.8
09:00 PM - 10:00 PM	53.1	70.5	46.0
10:00 PM - 11:00 PM	52.8	75.5	46.6
11:00 PM - 12:00 AM	61.8	83.9	46.7
12:00 AM - 01:00 AM	57.7	81.3	45.1
01:00 AM - 02:00 AM	47.4	66.8	44.1
02:00 AM - 03:00 AM	49.4	68.7	44.8
03:00 AM - 04:00 AM	45.2	62.5	43.8
04:00 AM - 05:00 AM	45.8	52.9	44.6
05:00 AM - 06:00 AM	46.4	60.0	45.2
06:00 AM - 07:00 AM	48.0	71.1	45.0
07:00 AM - 08:00 AM	50.8	87.0	44.2
08:00 AM - 09:00 AM	44.9	52.7	43.8

Leq Average 24 hrs. (dB(A)) 52.9

Lmax (dB(A)) 87.0

L90 (dB(A)) 45.0

Ldn (dB(A)) 60.7

Standard (dB(A)) 70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2391190

Date Received : Aug 16, 2023

Date Reported : Aug 23, 2023

Report Number: 2750852-1C18

Page 1 of 1

Sample Number 2391190-4
Parameter Noise (Leq 24 hrs.)
Location บริเวณเขตรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊ม รปภ บล็อก 45) (GPS 47P 0727136, 1404550)
Measurement Date Aug 12 - Aug 13, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 623391

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	47.4	66.9	42.8
10:00 AM - 11:00 AM	49.2	71.3	43.3
11:00 AM - 12:00 PM	53.8	77.9	46.8
12:00 PM - 01:00 PM	55.2	77.9	48.0
01:00 PM - 02:00 PM	56.2	87.2	45.8
02:00 PM - 03:00 PM	49.7	69.1	44.8
03:00 PM - 04:00 PM	53.6	82.0	46.3
04:00 PM - 05:00 PM	49.4	69.3	44.9
05:00 PM - 06:00 PM	51.2	73.3	45.7
06:00 PM - 07:00 PM	55.4	80.4	45.3
07:00 PM - 08:00 PM	51.7	73.2	46.5
08:00 PM - 09:00 PM	53.8	71.2	46.7
09:00 PM - 10:00 PM	53.5	76.2	47.3
10:00 PM - 11:00 PM	62.5	84.6	47.4
11:00 PM - 12:00 AM	58.4	82.0	45.8
12:00 AM - 01:00 AM	48.1	67.5	44.8
01:00 AM - 02:00 AM	50.1	69.4	45.5
02:00 AM - 03:00 AM	45.9	63.2	44.5
03:00 AM - 04:00 AM	46.5	53.6	45.3
04:00 AM - 05:00 AM	47.1	60.7	45.9
05:00 AM - 06:00 AM	48.7	71.8	45.7
06:00 AM - 07:00 AM	51.5	87.7	44.9
07:00 AM - 08:00 AM	45.6	53.4	44.5
08:00 AM - 09:00 AM	48.1	67.6	43.5

Leq Average 24 hrs. (dB(A))

53.8

Lmax (dB(A))

87.7

L90 (dB(A))

45.5

Ldn (dB(A))

61.3

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป

2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2391190

Date Received : Aug 16, 2023

Date Reported : Aug 23, 2023

Report Number: 2750853-1C18

Page 1 of 1

Sample Number 2391190-5
Parameter Noise (Leq 24 hrs.)
Location บริเวณเขตรั้วของโครงการทางด้านทิศใต้ของพื้นที่ HPPO (ข้างปั๊ม รปภ บล็อก 45) (GPS 47P 0727136, 1404550)
Measurement Date Aug 13 - Aug 14, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 623391

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	49.9	72.0	44.0
10:00 AM - 11:00 AM	54.5	78.6	47.5
11:00 AM - 12:00 PM	55.9	78.6	48.7
12:00 PM - 01:00 PM	56.9	87.9	46.5
01:00 PM - 02:00 PM	50.4	69.8	45.5
02:00 PM - 03:00 PM	50.8	71.1	45.8
03:00 PM - 04:00 PM	51.0	72.6	45.7
04:00 PM - 05:00 PM	50.7	71.6	45.7
05:00 PM - 06:00 PM	49.0	67.7	44.7
06:00 PM - 07:00 PM	50.0	63.9	44.5
07:00 PM - 08:00 PM	50.4	67.2	45.0
08:00 PM - 09:00 PM	55.0	76.4	45.5
09:00 PM - 10:00 PM	52.1	70.1	47.1
10:00 PM - 11:00 PM	62.0	83.8	47.2
11:00 PM - 12:00 AM	57.7	78.6	46.0
12:00 AM - 01:00 AM	47.1	65.0	44.8
01:00 AM - 02:00 AM	48.5	80.1	44.7
02:00 AM - 03:00 AM	51.2	72.7	45.0
03:00 AM - 04:00 AM	47.6	69.0	45.8
04:00 AM - 05:00 AM	46.7	52.7	45.9
05:00 AM - 06:00 AM	49.7	67.1	47.4
06:00 AM - 07:00 AM	48.2	53.1	47.7
07:00 AM - 08:00 AM	50.0	68.6	47.7
08:00 AM - 09:00 AM	48.9	63.4	48.3

Leq Average 24 hrs. (dB(A))

53.5

Lmax (dB(A))

87.9

L90 (dB(A))

45.8

Ldn (dB(A))

60.9

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป

2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2391190

Date Received : Aug 16, 2023

Date Reported : Aug 23, 2023

Report Number: 2750854-1C18

Page 1 of 1

Sample Number 2391190-6
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วของโครงการทางด้านทิศของพื้นที่ HPPPO (ข้างปั๊มน รถบัส 45) (GPS 47P 0727136, 1404550)
Measurement Date Aug 14 - Aug 15, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 623391

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	49.6	68.1	47.8
10:00 AM - 11:00 AM	56.1	78.2	48.7
11:00 AM - 12:00 PM	57.2	83.0	49.8
12:00 PM - 01:00 PM	54.8	76.0	46.6
01:00 PM - 02:00 PM	49.8	72.2	45.2
02:00 PM - 03:00 PM	49.3	66.8	45.0
03:00 PM - 04:00 PM	51.8	74.6	45.6
04:00 PM - 05:00 PM	50.7	71.0	45.7
05:00 PM - 06:00 PM	49.9	66.1	46.2
06:00 PM - 07:00 PM	50.0	69.7	46.4
07:00 PM - 08:00 PM	54.9	81.1	44.3
08:00 PM - 09:00 PM	52.9	71.4	45.7
09:00 PM - 10:00 PM	54.5	76.1	46.9
10:00 PM - 11:00 PM	64.8	86.7	46.8
11:00 PM - 12:00 AM	53.0	79.6	44.6
12:00 AM - 01:00 AM	47.0	66.7	43.9
01:00 AM - 02:00 AM	45.8	59.7	44.6
02:00 AM - 03:00 AM	49.6	69.4	45.3
03:00 AM - 04:00 AM	46.6	65.8	45.3
04:00 AM - 05:00 AM	45.9	52.7	45.0
05:00 AM - 06:00 AM	50.0	71.9	45.1
06:00 AM - 07:00 AM	46.9	64.7	45.5
07:00 AM - 08:00 AM	48.3	53.4	47.3
08:00 AM - 09:00 AM	48.7	67.3	47.1

Leq Average 24 hrs. (dB(A))

54.3

Lmax (dB(A))

86.7

L90 (dB(A))

45.6

Ldn (dB(A))

62.1

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง กำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong Thailand
21130

P/O : 4503238392

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2391190

Date Received : Aug 16, 2023

Date Reported : Aug 23, 2023

Report Number: 2750855-1C18

Page 1 of 1

Sample Number 2391190-7
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วของโครงการทางด้านทิศของพื้นที่ HPPPO (ข้างปั๊มน รถบัส 45) (GPS 47P 0727136, 1404550)
Measurement Date Aug 15 - Aug 16, 2023
Measurement by Mongkon Phalathip
Sound Level meter Serial No. 623391

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	49.3	72.9	47.3
10:00 AM - 11:00 AM	54.1	75.2	48.8
11:00 AM - 12:00 PM	54.4	76.0	49.2
12:00 PM - 01:00 PM	53.5	73.7	45.9
01:00 PM - 02:00 PM	58.0	90.5	44.8
02:00 PM - 03:00 PM	49.8	72.8	44.4
03:00 PM - 04:00 PM	50.3	70.4	44.7
04:00 PM - 05:00 PM	54.8	78.3	45.8
05:00 PM - 06:00 PM	50.4	79.3	45.8
06:00 PM - 07:00 PM	48.3	66.6	44.8
07:00 PM - 08:00 PM	50.4	65.9	46.3
08:00 PM - 09:00 PM	55.1	76.1	47.1
09:00 PM - 10:00 PM	52.7	72.0	48.1
10:00 PM - 11:00 PM	48.5	65.8	47.1
11:00 PM - 12:00 AM	49.1	56.2	47.9
12:00 AM - 01:00 AM	49.7	63.3	48.5
01:00 AM - 02:00 AM	51.3	74.4	48.3
02:00 AM - 03:00 AM	54.1	90.3	47.5
03:00 AM - 04:00 AM	48.2	56.0	47.1
04:00 AM - 05:00 AM	50.7	70.2	46.1
05:00 AM - 06:00 AM	52.5	74.6	46.6
06:00 AM - 07:00 AM	57.1	81.2	50.1
07:00 AM - 08:00 AM	58.5	81.2	51.3
08:00 AM - 09:00 AM	59.5	90.5	49.1

Leq Average 24 hrs. (dB(A))

53.9

Lmax (dB(A))

90.5

L90 (dB(A))

47.1

Ldn (dB(A))

59.1

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศกระทรวงมหาดไทย เรื่อง กำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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ภาคผนวก ค-5

ผลตรวจวัดระดับเสียงแยกความถี่ (Octave Band)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159018

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2388105

Date Received : Aug 29, 2023

Date Reported : Sep 05, 2023

Report Number : 2767893-1

Page 1 of 1

Sample Number 2388105-1
Parameter Octave Band
Location ทบอณพำนัก/โรงงาน
Measurement Date Aug 28, 2023
Measurement By Apichart Wilars

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
09:38 AM - 10:38 AM	76.2	16.1	35.6	45.4	64.9	62.4	68.4	69.4	68.4	69.3	67.2	56.0
10:38 AM - 11:38 AM	76.9	15.7	35.4	45.4	63.1	62.5	68.2	69.4	68.4	72.3	67.2	55.9
11:38 AM - 12:38 PM	77.2	19.4	34.5	45.1	64.1	62.0	68.5	70.6	69.7	71.6	67.5	56.8
12:38 PM - 01:38 PM	77.0	19.8	34.5	45.0	62.4	61.5	68.3	70.2	69.0	71.9	67.3	56.5
01:38 PM - 02:38 PM	76.5	20.6	35.1	45.4	63.3	61.5	68.3	70.1	68.8	70.2	67.3	56.5
02:38 PM - 03:38 PM	77.1	21.1	35.5	45.5	63.1	61.3	67.9	71.0	70.3	71.0	67.4	56.9
03:38 PM - 04:38 PM	76.9	19.3	34.4	45.3	63.9	60.6	68.1	71.1	70.8	70.3	64.7	54.3
04:38 PM - 05:38 PM	72.8	19.0	34.4	45.3	65.1	59.4	63.9	67.1	64.3	66.3	56.0	44.1
Average	76.5	19.2	35.0	45.3	63.8	61.5	67.9	70.0	69.0	70.7	66.5	55.7

Reference Method : ANSI Standard S1.6-1984

Technical Management

Orawan R.
Orawan Rakyong
Scientist (3)

Approved by

Supot S.
Supot Salamteh
Section Head

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159018

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 2388105

Date Received : Aug 29, 2023

Date Reported : Sep 05, 2023

Report Number : 2767894-1

Page 1 of 1

Sample Number 2388105-2
Parameter Octave Band
Location ทบอณพำนัก
Measurement Date Aug 28, 2023
Measurement By Apichart Wilars

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
09:43 AM - 10:43 AM	80.7	20.8	41.6	53.1	69.1	66.4	71.7	76.0	73.9	72.3	68.8	60.2
10:43 AM - 11:43 AM	80.8	21.1	40.1	52.7	68.9	66.4	71.9	76.2	74.2	72.4	68.7	60.1
11:43 AM - 12:43 PM	80.3	22.4	39.7	52.6	68.8	66.2	71.5	75.2	73.7	72.2	68.6	60.0
12:43 PM - 01:43 PM	80.3	22.9	39.8	52.4	69.3	66.0	71.7	75.1	73.7	72.2	68.5	59.9
01:43 PM - 02:43 PM	80.3	23.3	40.0	52.5	69.7	66.1	71.6	75.0	73.6	72.2	68.5	59.9
02:43 PM - 03:43 PM	80.3	22.9	40.1	52.7	69.5	66.0	71.6	75.0	73.7	72.2	68.5	60.0
03:43 PM - 04:43 PM	80.4	21.7	39.6	53.2	69.1	66.1	71.5	75.1	73.9	72.6	68.9	60.4
04:43 PM - 05:43 PM	80.2	21.9	39.7	53.3	68.7	66.4	71.2	75.0	73.4	72.2	68.7	60.3
Average	80.4	22.2	40.1	52.8	69.2	66.2	71.6	75.4	73.8	72.3	68.7	60.1

Reference Method : ANSI Standard S1.6-1984

Technical Management

Orawan R.
Orawan Rakyong
Scientist (3)

Approved by

Supot S.
Supot Salamteh
Section Head

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 2388108

Date Received : Aug 29, 2023

Date Reported : Sep 05, 2023

Report Number : 2767896-1

Page 1 of 1

Sample Number 2388108-1
Parameter Octave Band
Location หน่วยฟาร์มผู้ศึกษาของสายการผลิตที่ 2
Measurement Date Aug 28, 2023
Measurement By Sathapron Thakarnw

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
09:30 AM - 10:30 AM	75.4	13.3	33.5	44.5	53.3	61.6	66.4	68.2	69.5	71.0	58.9	47.5
10:30 AM - 11:30 AM	75.7	12.5	30.8	44.6	52.7	61.2	66.8	68.5	70.0	71.2	59.8	46.9
11:30 AM - 12:30 PM	76.4	13.0	29.1	45.3	53.4	62.5	67.8	69.5	70.5	71.5	59.9	46.5
12:30 PM - 01:30 PM	77.3	12.6	29.3	44.5	54.6	64.1	68.9	71.0	71.5	72.0	59.6	46.6
01:30 PM - 02:30 PM	77.7	13.4	30.5	45.1	55.6	65.8	69.7	71.7	71.8	71.7	59.7	46.9
02:30 PM - 03:30 PM	77.3	13.2	30.9	45.1	55.4	65.6	69.0	71.1	71.1	71.6	59.7	46.9
03:30 PM - 04:30 PM	77.4	13.0	29.7	44.0	54.6	65.7	69.0	71.4	71.4	71.8	59.8	46.9
04:30 PM - 05:30 PM	80.5	12.7	29.2	43.6	57.0	67.0	70.6	73.3	73.6	76.4	69.0	52.2
Average	77.5	13.0	30.6	44.6	54.8	64.6	68.7	70.9	71.3	72.5	62.5	48.0

Reference Method : ANSI Standard S1.6-1984

Technical Management

Orawan R.
Orawan Rakyong
Scientist (3)

Approved by

Supot S.
Supot Salamteh
Section Head

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 2388108

Date Received : Aug 29, 2023

Date Reported : Sep 05, 2023

Report Number : 2767897-1

Page 1 of 1

Sample Number 2388108-2
Parameter Octave Band
Location หน่วยฟาร์มผู้ศึกษาของสายการผลิตที่ 2
Measurement Date Aug 28, 2023
Measurement By Sathapron Thakarnw

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
09:40 AM - 10:40 AM	77.9	26.1	41.6	50.5	63.7	66.5	68.6	72.1	71.2	70.8	67.9	58.7
10:40 AM - 11:40 AM	77.9	26.2	41.8	50.4	63.6	66.5	68.6	72.1	71.2	70.8	67.8	58.6
11:40 AM - 12:40 PM	77.7	26.0	40.9	50.3	63.5	66.5	68.3	71.5	71.0	70.6	67.7	58.5
12:40 PM - 01:40 PM	77.6	25.8	40.8	50.3	63.5	66.4	68.3	71.5	70.9	70.5	67.6	58.5
01:40 PM - 02:40 PM	77.6	26.3	41.0	50.3	63.4	66.4	68.2	71.5	70.9	70.5	67.6	58.5
02:40 PM - 03:40 PM	77.6	26.2	40.9	50.3	63.5	66.4	68.3	71.5	70.9	70.6	67.7	58.6
03:40 PM - 04:40 PM	77.7	25.6	41.1	50.3	63.6	66.5	68.5	71.6	71.0	70.6	67.7	58.7
04:40 PM - 05:40 PM	77.7	25.6	41.3	50.3	63.9	66.5	68.5	71.6	70.9	70.6	67.7	58.8
Average	77.7	26.0	41.2	50.3	63.6	66.5	68.4	71.7	71.0	70.6	67.7	58.6

Reference Method : ANSI Standard S1.6-1984

Technical Management

Orawan R.
Orawan Rakyong
Scientist (3)

Approved by

Supot S.
Supot Salamteh
Section Head

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159018

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 23125278

Date Received : Nov 01, 2023

Date Reported : Nov 09, 2023

Report Number : 2830373-1

Page 1 of 1

Sample Number : 23125278-1
Parameter : Octave Band
Location : ท้องฟ้าเปิด
Measurement Date : Oct 31, 2023
Measurement By : Natthapon Jiengwareewong

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
09:59 AM - 10:59 AM	71.6	14.7	34.0	46.6	58.4	60.0	64.2	67.5	64.8	61.0	54.2	43.3
10:59 AM - 11:59 AM	71.1	15.5	32.8	45.9	58.3	59.8	63.5	67.0	64.3	60.6	54.0	43.2
11:59 AM - 12:59 PM	71.0	14.6	32.1	45.5	58.4	59.6	63.5	66.9	64.1	60.6	53.9	43.0
12:59 PM - 01:59 PM	71.3	14.9	32.7	46.0	58.9	59.7	64.2	67.2	64.3	60.6	53.9	43.1
01:59 PM - 02:59 PM	71.3	15.0	33.8	46.4	59.3	59.8	64.1	67.1	64.2	60.5	53.9	43.1
02:59 PM - 03:59 PM	71.2	15.5	33.1	46.9	59.9	59.8	63.8	67.0	64.1	60.4	53.8	43.1
03:59 PM - 04:59 PM	71.3	15.5	33.6	47.0	61.3	59.9	63.7	67.0	64.0	60.3	53.7	43.2
04:59 PM - 05:59 PM	71.5	15.7	34.0	47.1	61.0	60.0	63.8	67.0	64.5	60.8	53.8	43.2
Average	71.3	15.2	33.3	46.5	59.6	59.8	63.9	67.1	64.3	60.6	53.9	43.2

Reference Method : ANSI Standard S1.6-1984

Technical Management

Orawan R.
Orawan Rakyong
Scientist (3)

Approved by

Supot S.
Supot Salamteh
Section Head

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159018

Project Name : Environmental Quality Monitoring

Project Location : AIE_DMC Polyol Plant

Lot ID: 23125278

Date Received : Nov 01, 2023

Date Reported : Nov 09, 2023

Report Number : 2830374-1

Page 1 of 1

Sample Number : 23125278-2
Parameter : Octave Band
Location : ท้องฟ้าเปิด
Measurement Date : Oct 31, 2023
Measurement By : Natthapon Jiengwareewong

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
09:35 AM - 10:35 AM	78.9	22.9	40.4	52.4	64.2	65.8	69.8	72.9	71.9	71.9	69.4	60.4
10:35 AM - 11:35 AM	78.8	23.4	40.4	52.1	64.1	65.7	69.8	72.8	71.8	71.8	69.3	60.4
11:35 AM - 12:35 PM	78.6	23.5	40.1	51.5	64.0	65.6	69.6	72.6	71.6	71.5	69.2	60.3
12:35 PM - 01:35 PM	78.5	22.6	39.8	51.9	63.8	65.5	69.7	72.6	71.5	71.4	69.1	60.4
01:35 PM - 02:35 PM	78.5	21.9	40.4	52.1	63.9	65.5	69.6	72.7	71.6	71.5	69.2	60.5
02:35 PM - 03:35 PM	78.9	21.8	40.0	52.5	63.9	65.5	70.0	72.9	71.9	71.9	69.5	60.7
03:35 PM - 04:35 PM	79.0	21.3	40.3	52.8	64.0	65.6	70.0	73.0	72.0	72.1	69.7	60.8
04:35 PM - 05:35 PM	79.0	21.2	40.6	53.2	64.1	65.7	70.1	73.1	72.0	72.2	69.6	60.7
Average	78.8	22.4	40.3	52.3	64.0	65.6	69.8	72.8	71.8	71.8	69.4	60.5

Reference Method : ANSI Standard S1.6-1984

Technical Management

Orawan R.
Orawan Rakyong
Scientist (3)

Approved by

Supot S.
Supot Salamteh
Section Head

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Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 23125302

Date Received : Nov 01, 2023

Date Reported : Nov 09, 2023

Report Number : 2830375-1

Page 1 of 1

Sample Number : 23125302-1
Parameter : Octave Band
Location : หน่วยปฏิบัติการของสายการผลิตที่ 2
Measurement Date : Oct 31, 2023
Measurement By : Natthapon Jhengwareewong

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
10:11 AM - 11:11 AM	81.5	13.8	31.7	44.3	54.3	65.4	71.8	75.4	74.9	77.0	67.8	45.3
11:11 AM - 12:11 PM	81.7	13.5	29.3	44.4	54.5	65.3	72.2	76.0	75.5	76.8	67.7	45.1
12:11 PM - 01:11 PM	81.8	12.9	28.7	43.7	54.1	65.4	72.4	76.1	75.6	76.8	67.8	45.0
01:11 PM - 02:11 PM	80.6	12.8	28.8	43.2	53.3	64.5	70.7	74.3	74.1	76.3	67.9	45.4
02:11 PM - 03:11 PM	74.1	12.8	28.9	42.8	50.9	58.2	66.2	67.2	67.2	69.4	62.1	40.1
03:11 PM - 04:11 PM	70.2	13.0	28.8	42.8	51.3	57.8	63.2	64.9	64.8	61.8	51.5	35.7
04:11 PM - 05:11 PM	70.8	13.0	29.4	43.3	51.8	58.1	63.5	65.3	65.0	63.8	51.8	36.0
05:11 PM - 06:11 PM	71.2	13.6	30.3	43.5	51.9	58.4	63.7	65.4	65.9	63.7	52.6	36.3
Average	78.9	13.2	29.6	43.5	53.0	62.9	69.5	72.9	72.5	74.1	65.2	42.9

Reference Method : ANSI Standard S1.6-1984

Technical Management

Orawan R.
Orawan Rakyong
Scientist (3)

Approved by

Supot S.
Supot Salamteh
Section Head

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S:\Reports\Air Noise_Octave band.rpt (4:47PM)



Analysis / Test Report

Client : Dow Chemical Thailand Ltd.

10 Moo 2, Asia Industrial Estate, Tambol Banchang, Amphur Banchang, Rayong
Thailand 21130

P/O : 4514159080

Project Name : Environmental Quality Monitoring

Project Location : AIE_Rigid Polyol Plant

Lot ID: 23125302

Date Received : Nov 01, 2023

Date Reported : Nov 09, 2023

Report Number : 2830376-1

Page 1 of 1

Sample Number : 23125302-2
Parameter : Octave Band
Location : หน่วยปฏิบัติการของสายการผลิตที่ 2
Measurement Date : Oct 31, 2023
Measurement By : Natthapon Jhengwareewong

Time	Result (dB(A))											
	Leq	16 Hz	31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
09:30 AM - 10:30 AM	76.7	25.0	39.4	49.9	62.7	65.6	67.4	70.4	69.9	69.9	67.1	58.1
10:30 AM - 11:30 AM	76.6	25.3	39.2	49.7	62.5	65.5	67.1	70.1	69.7	69.9	67.2	58.1
11:30 AM - 12:30 PM	76.5	25.6	39.1	49.4	62.2	65.3	66.9	69.9	69.6	69.8	67.2	58.0
12:30 PM - 01:30 PM	76.5	24.6	39.1	49.6	62.3	65.4	67.0	70.0	69.6	69.8	67.2	58.0
01:30 PM - 02:30 PM	76.6	24.5	39.6	49.8	62.5	65.4	67.1	70.1	69.7	69.8	67.1	58.0
02:30 PM - 03:30 PM	76.6	24.2	39.7	50.0	62.7	65.6	67.2	70.2	69.8	69.9	67.1	58.1
03:30 PM - 04:30 PM	76.7	24.0	40.1	50.1	62.9	65.7	67.3	70.2	69.8	69.8	67.1	58.1
04:30 PM - 05:30 PM	76.8	24.0	40.3	50.4	63.1	65.8	67.4	70.3	69.9	69.9	67.0	58.1
Average	76.6	24.7	39.6	49.9	62.6	65.5	67.2	70.2	69.8	69.9	67.1	58.1

Reference Method : ANSI Standard S1.6-1984

Technical Management

Orawan R.
Orawan Rakyong
Scientist (3)

Approved by

Supot S.
Supot Salamteh
Section Head

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